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Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/CEMENT/2020-21

Date: 17.02.2021

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Cement
Sample Received on	:	16.02.2021
Period of Testing	:	16.02.2021 to 17.02.2021
Report Issue Date	:	17.02.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/SAND-Gradation/2020-21 17.02.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	16.02.2021
Date of Testing	:	17.02.2021
Report Issue Date	:	17.02.2021

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.10	90-100	90-100	90-100	95-100
2.36	79.10	60-95	75-100	85-100	95-100
1.18	65.60	30-70	55-90	75-100	90-100
600 Micron	44.00	15-34	35-59	60-79	80-100
300 Micron	21.50	5-20	8-30	12-40	15-50
150 Micron	7.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/AGG/GR/2020-21

17.02.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	16.02.2021
Date of Testing	:	17.02.2021
Report Issue Date	:	17.02.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.54	95-100	85-100
20	39.50	30-70	0-20
10	17.04	10-35	0-5
4.75	3.84	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

Note:

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/AGG/GR/2020-21 17.02.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	16.02.2021
Date of Testing	:	17.02.2021
Report Issue Date	:	17.02.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	96.02	90-100	85-100
10	36.98	25-55	0-20
4.75	3.74	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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19.02.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
*Sample ID	:	Sand for masonry mortars
Test Method As Per	:	IS : 2116 : 1980 (RA-2017)
Sample Received on	:	17.02.2021
Date of Testing	:	19.02.2021
Report Issue Date	:	19.02.2021

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 2116 - 1980 (RA-2017)
4.75	100.00	100
2.36	98.70	90-100
1.18	96.20	70-100
600 Micron	82.20	40-100
300 Micron	34.20	5-70
150 Micron	12.60	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

Note:

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/SAND-Gradation/2020-21 02.03.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP,
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
*Sample ID	:	Sand For Pointing
Test Method As Per	:	IS - 1542 : 1992 (RA-2019)
Sample Received on	:	01.03.2021
Date of Testing	:	02.03.2021
Report Issue Date	:	02.03.2021

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.80	95-100
2.36	97.50	95-100
1.18	93.90	90-100
600 Micron	87.10	80-100
300 Micron	42.60	20-65
150 Micron	12.50	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/Cube/2020-21

30.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Coping Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2008)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{10}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.03.2021
Report Issue Date	:	30.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.03.2021	30.03.2021	8.190	252.3	11.21
2	02.03.2021	30.03.2021	8.213	260.4	11.57
3	02.03.2021	30.03.2021	8.320	275.6	12.25

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/Precast Slab /2020-21

10.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Precast Slab (250mm thick)
* Grade of Concrete	:	M_{20}
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	09.03.2021
Date of Testing	:	10.03.2021
Report Issue Date	:	10.03.2021

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.415	2577.53	1.64	0.961	30.50	15.53	16.78	17.45	21.82
2	50.00	84.00	0.420	2546.48	1.68	0.965	31.80	16.20	17.49	18.12	22.65
3	50.00	86.00	0.430	2546.48	1.72	0.970	32.95	16.78	18.12	18.69	23.36

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/SC/W.No.06/WMM/Gradation/2020-21 10.03.2021

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	10.03.2021
Report Issue Date	:	10.03.2021

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	155	155	3.1	96.9	95-100
22.4	1452	1607	32.14	67.86	60-80
11.2	1025	2632	52.64	47.36	40-60
4.75	520	3152	63.04	36.96	25-40
2.36	490	3642	72.84	27.16	15-30
0.600	655	4297	85.94	14.06	8-22
0.075	600	4897	97.94	2.06	0-5

*Information is furnished by the Customer/Representative.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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10.03.2021

Job No.: CTCE/BBMP/SC/W.No.06/WMM/AIV/2020-21

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Name of Sub Work	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Reference	:	EE-4(SWM)/WO/02/2020-21 Dated : 23.09.2020
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part -4) : 1963 (RA-2016)
Date of Testing	:	10.03.2021
Report Issue Date	:	10.03.2021

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	395	396	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	95	96	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	300	300	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	24.05	24.24	24.15

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/SC/W.No.06/WMM/Shape.T/2020-21 10.03.2021

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part 1) : 1963 (RA 2016)
Date of Testing	:	10.03.2021.
Report Issue Date	:	10.03.2021

Sl.No.	Description	Result
1	Flakiness Index	11.62%
2	Elongation Index	12.60%
3	Combined Flakiness & Elongation Index	24.22%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 35%

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19.04.2021

Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/Cube/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop .P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2008)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.04.2021
Report Issue Date	:	19.04.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2021	19.04.2021	8.113	485.6	21.58
2	22.03.2021	19.04.2021	8.265	508.6	22.60
3	22.03.2021	19.04.2021	8.302	519.7	23.10

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19.04.2021

Job No.: CTCE/BBMP/SC/W.No.06/CSR-391/Cube/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Name of Work	:	Development of Road Drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2008)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.04.2021
Report Issue Date	:	19.04.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2021	19.04.2021	8.310	510.2	22.68
2	22.03.2021	19.04.2021	8.416	520.6	23.14
3	22.03.2021	19.04.2021	8.465	513.3	22.81

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19.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/185/2020-21 Dated: 03.02.2021
* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2008)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.04.2021
Report Issue Date	:	19.04.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2021	19.04.2021	8.328	510.3	22.68
2	22.03.2021	19.04.2021	8.498	526.6	23.40
3	22.03.2021	19.04.2021	8.415	508.9	22.62

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.04.2021
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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2021	19.04.2021	8.219	490.2	21.79
2	22.03.2021	19.04.2021	8.316	505.5	22.47
3	22.03.2021	19.04.2021	8.415	516.6	22.96

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